

# Receiving Report

Date: 04/04/01

Batch No: M/28 200

Supplier: CUNE AVIATION

Dart P/O: 23 508

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒  
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC18 Inspection ☐ N/A ☒  
 Work Order ☐ N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
CERT PWR 1000	1 RECEIVING						14/4/01

Initials of Receiver

QC12

Production/Admin:

Date \_\_\_\_\_

Received/Costing \_\_\_\_\_

Initial \_\_\_\_\_

Location \_\_\_\_\_



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO23555

Purchase Order Date 3/28/2014

PO Print Date 3/28/2014

Page Number 1 of 2

**Order From :**

VU-COR001

C.O.R.E. AVIATION SERVICES  
16305 E. TWIN ACRES DRIVE  
GILBERT, AZ 85297  
US

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

480 497 6136

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

FedEx PI collect

**Ship Acct:**

**Buyer**

**Customer POID**

**Customer Tax #**

**Terms**

**Currency**

**FOB**

Chantal Lavoie

10127-2607

Net 10

USD

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN6C44A	Bolt	4/4/2014 Yes 4/4/2014	FN	100.00 Each	\$14.00	\$1,400.00
Line Total:							\$1,400.00
2	71401-45	PROCUREMENT QUALITY CLAUSES	4/4/2014 No 4/4/2014		1.00	\$0.00	\$0.00
Procurement Quality Clauses A005 RIGHT OF ENTRY A012 CHEMICAL AND PHYSICAL TEST REPORTS A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS A040 NOTIFICATION OF QUALITY ESCAPE A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS							

Note:

3/28/2014

# CERTIFICATE OF CONFORMANCE

## C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE, GILBERT, AZ 85298, USA

Phone: 480-497-6136 Fax: 480-497-3568 FAA Sta. #: Web:

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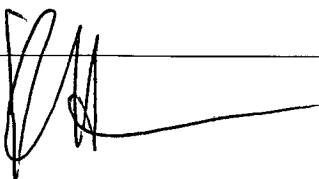
Invoice : CA140331-5  
Date : 03/31/2014  
PO : 23555  
Issued By : sale2  
Page : 1 of 1

THIS IS TO CERTIFY THAT ALL GOODS ON C.O.R.E. INVOICE WERE SHIPPED IN ACCORDANCE WITH THE PART SPECIFICATIONS ON CUSTOMERS PO & TO THE BEST OF OUR KNOWLEDGE AND BELIEF, MEET THOSE STANDARDS.

ITEM(S) WERE DETERMINED TO BE IN STATED CONDITION BY VISUAL CONDITION AND OR IN ACCORDANCE WITH RECEIVING RECORDS.

ALL DETAILED RECORDS ARE KEPT ON FILE AT C.O.R.E. AVIATION SERVICES FOR ANY FUTURE CUSTOMER INSPECTION.

Item	Part Number/Description	Shipped	CD
1	AN6C44A Lot:15632	100	FN



KAIZER HUSEIN

BUTLER, INC.

1600 W. 166th STREET  
GARDENA, CA 90247

# Packing List

Customer No.: C.O.R.E

Ship To: **CORE AVIATION SERVICES, INC.**  
16305 E. TWIN ACRES DR.  
GILBERT, AZ 85298

Bill To: **CORE AVIATION SERVICES, INC.**  
16305 E. TWIN ACRES DR.  
GILBERT, AZ 85298

Date			Ship Via			F.O.B.			Terms			
11/27/12			UPS COL			Origin						
Purchase Order Number				Order Date		Sales Person				Our Order Number		
STK120713-5				07/16/12						15632		
Quantity			U/M	Item Number	Description	Serial Number						
Req	Shipped	B.O.										
1000	500	500	each	AN6C44A	LOT 15632							

**BUTLER INC.**

Thank You

1600 West 166th Street Gardena, CA 90247  
(310) 323-3114 FAX (310) 324-0914



PERRY JOHNSON  
REGISTRARS, INC.

ISO 9001 REGISTERED

# BUTLER INC.

1600 W. 166th STREET  
GARDENA, CALIFORNIA 90247  
(310) 323-3114 / FAX (310) 324-0914



PERRY JOHNSON  
REGISTRARS, INC.

ISO 9001 REGISTERED

CAGE # 59053

C.O.R.E. AVIATION SERVICES  
16305 E. TWIN ACRES DRIVE  
GILBERT, AZ 85298

## CERTIFICATE OF COMPLIANCE

BUYER ORDER NO.: STK120713-5      ITEM: 1

NSN #: NA      PART NUMBER: AN6C44A      REV: 2

DESCRIPTION: BOLT, HEX HEAD, .3750-24 x 4.578, 431, PASSIVATE

SPECIFICATIONS: NASM6812-3, ASIM A 493-09, AMS-H-6875B, AMS2700E

QUANTITY: 500      LOT #: 15632      HEAT #: G18835

BUTLER INC. HEREBY CERTIFIES THAT THIS LOT HAS BEEN PRODUCED, SAMPLED, INSPECTED, TESTED, MARKED AND PACKAGED IN ACCORDANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS. FURTHERMORE, BUTLER INC. CERTIFIES THAT DOCUMENTED EVIDENCE OF COMPLIANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS APPLICABLE TO THIS LOT IS ON FILE AT OUR PLANT IN THE FORM OF MECHANICAL, METALLURGICAL AND/OR CHEMICAL TEST REPORTS AND INSPECTION RECORDS, AND IS AVAILABLE FOR BUYERS REVIEW.

DATE OF EXECUTION: 11/27/12

SIGNATURE: Tod F. Polidori  
TOD F. POLIDORI

TITLE: Q.A. MANAGER

Form #BIC015  
Rev 11/97

Order No: 3440497  
Time 15:45:40



**FRY STEEL COMPANY**  
Registered ISO 9001  
13325 MOLETTE ST.  
SANTA FE SPRINGS, CA 90670  
(562) 802-2721

B04163  
Cust. NO.: 22899  
P.O. NO.:

## CERTIFICATE OF COMPLIANCE

BUTLER INC \*\*\*  
1600 W 166TH ST  
\*\* MAIL OUT INVOICES \*\*  
GARDENA CA 90247-4704

ROOKE MFG  
3360 W HARVARD ST  
SANTA ANA CA 92704-3920

07/16/12

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	CD 431 ANN AMS 5628 GREEN/YELLOW		
47	BARS .385"RD PIE	12'RL 4250	G18835

REVIEWED BY: 

DATE: 9-14-12

### NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED\*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.  
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.


AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION (I.E. MAG., SONIC, ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED  
CONDITION. ~~DEFECT FREE MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.~~

NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM  
CONTAMINATION AT TIME OF SHIPMENT

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.  
\*WHEN APPLICABLE

RAW MAT'L USED  
FOR LOT # 15632

  
CHIP SANDOVAL - Q.C. MANAGER



# Dunkirk Specialty Steel, LLC

A Universal Stainless Company

P.O. Box 319

830 Brigham Rd.

Dunkirk, NY 14048

Quality System Registered to  
ISO9001 and AS9100

## Material Certification

MILL ORDER: 0042390  
PART NUMBER: S#4250  
P.O. NUMBER: 46809-25

P.O. DATE: 11/22/2011

PAGE NUMBER: 1 of 1

PRINTED: 7/25/12 14:03

S FRY STEEL COMPANY  
O T P.O. BOX 4048  
L O  
D

SANTA FE SPRINGS, CA 90670

S FRY STEEL CO  
H T C/O C.H.I. FREIGHT TRANS  
I O 4201 WEST 36TH ST  
P

CHICAGO, IL 60623

Material Description: STAINLESS STEEL ROUND BAR 431 EAF+ADD ANNEALED CENTERLESS GROUND AMS 2303F, ASTM A484-10, MIL-S-18732D, AMS-S-18732B, AMS 5628F, McDonnell Douglas DMS-1565G (except sonic), Hi Shear #115J (Type II, chemistry only), Federal QQ-S-763C Am. 2 (431 cond. A, exc. hard. & impact), waive CLM, ASTM A276-10 (431).

Size: .3850 DIAM X 132.0000 MIN/ 156.0000 MAX RANDOM LENGTH

Heat Number	C	0.15	MN	0.60	SI	0.35	S	0.004	P	0.020
G18835	CR	16.12	W	<0.05	V	0.03	NI	2.19	MO	0.06
	CO	<0.05	CU	0.15	SN	0.010	PB		CB	0.02
	TA		AL	<0.01	TI	<0.01	FE		B	
	O		MG		CA		SE		ZR	
	AG		BI		N	0.048	H		CQ	

HARDNESS (AS SHIPPED): 262 BHN

TENSILE CAPABILITY: 1875F/1HR/OQ+1175F/3HR/AC

T/S KSI	Y/S KSI	VEL
152.4	114.7	18.9

TENSILE CAPABILITY: 1875F/1HR/OQ + -100F/2HR/AC+550F/2HR/AC + 550F/2HR/AC

T/S KSI	Y/S KSI	VEL	HR/A
214.9	158.4	16.0	59.0

HARDENABILITY: Rc 49.0

MICRO TEST: ACCEPTABLE

MACRO ETCH TEST: ACCEPTABLE

GRAIN SIZE: 8

FERRITE: <4%

MAGNETIC PARTICLE F/S = 0/0

KNOWINGLY RECORDING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.

FRY STEEL CO. CERTIFIES THAT THIS IS  
A TRUE COPY OF THE ORIGINAL MILL TEST  
REPORT NOW ON FILE  
RECEIVED AND INSPECTED

S# 4250

MELT SOURCE: UNIVERSAL/DUNKIRK

CHEMICAL BALANCE IS Fe

MATERIAL MELTED IN THE USA BY UNIVERSAL STAINLESS & ALLOY PRODUCTS, BRIDGEVILLE, PA

MATERIAL MANUFACTURED IN THE USA

11 20 2012

BY   
CHIP SANDOVAL - C.O. MANAGER

/S/John M. Berry

/S/John M. Berry

Prepared by: John M. Berry, QA

John M. Berry, QA Technician

07/25/12

Date

Melted and manufactured in compliance with DFARS 252.225-7014 ALT 1. Melted by USA in Bridgeville, PA., USA. Certification IAW DIN 50 049 / EN 10204 3.1. Material complies with EU directive 2002/95/EC (RoHS). The test results shown are certified to be a correct statement of records that were derived from testing samples of the material. Results meet applicable specifications. No welding was performed on the material supplied on this order. Material is free from mercury contamination. Material is of NAFTA origin. This material was produced under the Dunkirk Specialty Steel Quality Management System documented in QP Manual, Rev. 6 dated 1/6/2012, conforming to NCA-3800. Material testing was performed as applicable in accordance with ASTM A370, A604, E8, E10, E18, E23, E45, E112, E139, E381, E572, E1019, STP-CHEM-GDS, E1444, & AMS 2315. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes, including Federal Law Title 18, Chapter 47. Test results are maintained in company records.



10643 S. NORWALK BL.  
SANTA FE SPRINGS  
CALIFORNIA 90670  
562-944-8808  
800-622-6624  
FAX 562-944-1499  
www.continentalht.com

# CERTIFICATION

CERTIFICATION NUMBER  
818535

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BUTLER INC  
1600 W 166TH STREET  
GARDENA, CA 90247-4704

BUTLER INC  
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1600 W 166TH STREET  
GARDENA, CA 90247-4704

CUSTOMER NUMBER 0047500	DATE RECEIVED 09/26/12	CUSTOMER P.O. NUMBER 23924	CUSTOMER SHIPPER
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QUANTITY 1270	WEIGHT 209	PART NUMBER / DESCRIPTION AN6C44A REV.2 LOT# 15632 HEAT# G18835 END USER: C.O.R.E. H/T, 125-145 KSI PER P.O.	3 PANS
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MATERIAL 431 S/S	HARDNESS 25-32 HRC	MAX-CROSS SECTION .385	CASE DEPTH	CORE HARDNESS
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SPECIFICATIONS  
AMS 2759/5 B AMS H 6875 B

PROCESS	SPEC TEMP	SPEC TIME	EQUIP.	ACT TEMP	TIME IN	TIME AT-HEAT	TIME OUT	ATMOS DEWPT	Q-MED & TEMP	DATE
RACK VERT			RACK		1.00	Y				10/05
PRECLEAN	140	:05	WASH	140	18:40	18:40	18:45	AIR	A/C	10/05
LOADCOUPLE			WIRE		.08	Y				10/08
SET V P			ATMOS		.02	Y				10/08
AUSTENITIE	1875	:45	V1	1875	20:49	00:00	00:45	VAC	OIL	10/08
SUBZERO	-100	2:00	CB3	-100	02:55	03:10	05:10	NIT	A/W	10/09
TEMPER 15	1125	3:00	D12	1125	12:35	13:30	16:30	AIR	A/C	10/09
TEST RESULTS: 31 HRC										
TEMPER 15	1125	3:00	D12	1125	00:25	01:20	04:20	AIR	A/C	10/10
GLASS BEAD			B2		4.00	Y				10/11

REVIEWED BY:

JB  
A 5

DATE: 10-16-12

HARDNESS: 25-32 HRC QTY TESTED: 15 QTY ACCT: 1270 QTY REJT: 0

INSPECTOR  
WALTER WILLIAMS JR.

DATE  
10/12/12

QUALITY MANAGER  
JIMMY MARTINEZ for DON LOWMAN

This Process Certification covers thermal processing and/or hardness testing only. No particular mechanical properties of any material should be assumed, or are implied, as a result of the thermal processing and/or hardness testing cited in this Process Certification. Material processed in a mercury-, radium- and asbestos-free environment. Unless otherwise specified above, for all AMS material specifications, no qualification of periodic testing has been performed. ALL FURNACES CERTIFIED TO MEET THE REQUIREMENTS OF AMS-H-6875, CURRENT REVISION. HARDNESS TESTING PERFORMED TO THE LATEST REVISION OF ASTM E 384, ASTM E 10, ASTM E 110, ASTM E 18, ASTM E 140 AND ASTM A 370.





Element Materials Technology  
15062 Bolsa Chica  
Huntington Beach, CA  
92649-1023 USA

P 714 892 1961  
F 714 892 8159  
T 888 786 7555  
info.hb@element.com  
element.com

Contact: Tod Polidori  
Butler, Inc.  
1600 West 166th Street  
GARDENA, CA 90247

### TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 11/15/2012  
Purchase Order Number: 24091  
Work Order Number: BUT004-11-13-02864-1

Part No.:	AN6C44A REV. 2
Lot No.:	15632
Heat No.:	G18835
Material:	431
Specification:	NASM 6812-2

### FASTENER EVALUATION — STAINLESS STEEL

Number of Pieces: 5  
Etchant:  
Micro: Vilella's  
Temperature: Ambient  
Magnification: 100X/200X  
Macro: Vilella's  
Temperature: Ambient  
Magnification: 20X  
Grain Flow:  
Head: Grain flow follows the contour of the head. (Acceptable)  
Head to Shank Fillet: Grain flow follows the contour of the head to shank fillet. (Acceptable)  
Threads: Grain flow follows the contour of the threads. (Acceptable)  
Cracks: The entire sample shows no evidence of cracks.  
Discontinuities / Defects:  
Head: No discontinuities / defects found.  
Threads:  
Crest Laps: 0.002" (Within limits)  
Flank Laps: No discontinuities / defects found.  
Root Laps: No discontinuities / defects found.  
Grain Growth: None  
Grain Size: ASTM 7.0  
Surface Condition on Head: No surface contamination (IGA) found.  
Surface Condition on Threads: No surface contamination (IGA) found.  
Microstructure: Exhibits fine tempered martensite with no visible carbide precipitation in the grain boundaries.  
Surface Hardening: None except as created in cold working rolling of threads.

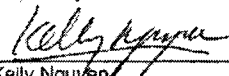
### MATERIAL CONFORMS TO SPECIFICATION

This document contains technical data whose export and re-export/ retransfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval may be required for the export or re-export/retransfer of such technical data to any foreign person, foreign entity or foreign organization whether in the United States or abroad.

REVIEWED BY: 

DATE: 11-15-12

Respectfully submitted



Kelly Nguyen  
Senior Quality Administrator

15062 Bolsa Chica, Huntington Beach, CA 92649  
(714) 892-1961 ph • (714) 892-8159 fax www.element.com

The information contained in this certification represents only the material submitted and is certified only for the quantities tested. Reproduction except in full is reserved pending written approval. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punishable as a felony under federal law. All testing was performed in a mercury free environment. **All testing performed in accordance with the latest edition of the applicable ASTM, or other Federal Test Method in effect at the time of test.**



# BUTLER INC.

1600 W. 166th STREET  
GARDENA, CALIFORNIA 90247  
(310) 323-3114 / FAX (310) 324-0914



## CERTIFIED TEST REPORT

CAGE CODE: 59053

PART NO: AN6C44A REV: 2  
LOT NO: 15632  
HEAT NO: G18835  
MAT'L: 431

PROCUREMENT SPEC: NASM6812 REV: 2  
LOT SIZE: 1249  
TEST DATE: 11/16/12  
CERTIFICATION NO: 4613

Test type: **Rockwell hardness** Test value: N/A Test method: Butler procedure no:  
Results:  
1. 5. 9. 13. 17. 21. 25. 29.  
2. 6. 10. 14. 18. 22. 26. 30.  
3. 7. 11. 15. 19. 23. 27. 31.  
4. 8. 12. 16. 20. 24. 28. 32.

Technician: Stamp:

Test type: **Axial tensile** Test value: 10100 lbs min Test method: NASM1312-8 Butler procedure no: BIQOP-5-8-4  
Results:  
1. 14844 lbs 5. 14613 lbs 9. 13. 17. 21. 25. 29.  
2. 14816 lbs 6. 10. 14. 18. 22. 26. 30.  
3. 14715 lbs 7. 11. 15. 19. 23. 27. 31.  
4. 14353 lbs 8. 12. 16. 20. 24. 28. 32.

Technician: Flavio Ron Stamp:

Test type: **Double shear** Test value: 16560 lbs min Test method: NASM1312-13 Butler procedure no: BIQOP-5-8-5  
Results:  
1. 20699 lbs 5. 20922 lbs 9. 13. 17. 21. 25. 29.  
2. 20737 lbs 6. 10. 14. 18. 22. 26. 30.  
3. 20598 lbs 7. 11. 15. 19. 23. 27. 31.  
4. 20816 lbs 8. 12. 16. 20. 24. 28. 32.

Technician: Flavio Ron Stamp:

Test type: **Recess torque** Test value: N/A Test method: Butler procedure no:  
Deformation allowable: Installation: Removal: Sample size:  
Results:

Technician: Stamp:

Test type: **Magnetic permeability** Test value: N/A Test method: Butler procedure no:  
Results: Sample size:

Technician: Stamp:

Material, as tested, conforms to specification requirements. The information on this report represents only the material tested. This report shall not be reproduced except in full without the written approval of Butler Inc.



# HADD-CO INSPECTION LAB

2420 Amsler Street, Torrance, CA 90505

Toll Free: (888) 339-8472 Phone: (310) 325-7620 Fax: (310) 325-9655

www.haddco.com Email: NDT@haddco.com

NO. 14768

Sold To:

BUTLER, INC  
1600 W. 166TH ST.  
GARDENA, CA 90249

P.O. Number:

24094


Job/Lot #:

15632

Completion Date:

11/16/12

## CERTIFICATION

QUANTITY	PART NUMBER	DESCRIPTION
32	AN6C44A REV. 2	MPI PER ASTM E1444M-11 NASM6812-2 MAT: 431 NOT PLATED HEAT# G18835  NO REJECTS
		REVIEWED BY:  DATE: 11-19-12

This is to certify that 100% of the parts under subject purchase order have been inspected by Magnetic Particle Inspection in accordance with all applicable and/or purchase order requirements.

Inspector:

MARTIN J. DIAZ Level II



NOTE: Altering of this certification renders it void.

Allblack Company, LLC  
13090 Park St.  
Santa Fe Springs, CA 90670  
Phone: (562) 946-2955  
Fax: (562) 946-6665

### Certificate of Conformance

To: Butler Inc.  
1600 West 166th Street  
Gardena, CA 90247  
United States

From: Allblack Company, LLC  
13090 Park St.  
Santa Fe Springs, CA 90670

Packing List No: 326480  
Shipping Date: 11/20/12

Today's Date: 11/27/12  
PO Number: 24202

### MERCURY FREE PROCESS

Quantity Shipped	Unit	Description	Job Number
1	LOT	PASSIVATE PER AMS2700E 1213PCS. OF P/N AN6C44A REV 2 LOT:15632 HT#G18835 MATL:431, 4PNS. 185#	441732
1	EA	FUEL FEE	441733

GENTLEMEN: This is to certify that the following articles have been processed and/or inspected as indicated above in accordance with military standards and specifications. If testing is not noted then no testing was performed. If a specification is not called out on the purchase order, then the process was performed per best commercial practice.

REVIEWED BY: (1/3)  
DATE: 11-27-12

*AL*



Inspector's Initials  
Allblack Company, LLC

